L 40090-66 EMP(e)/EMP(j)/T/EMP(L)/ETI | IJP(c) | JD/WW/WB/RM/WH ACC NR: AP6018790 (A) SOURCE CODE: UR/0416/65/000/012/0075/0079

AUTHOR: Putilov, V. (Engineer, Lieutenant commander); Sharapov, V. (Engineer, Lieutenant commander)

ORG: none

TITLE: Outside storage of goods

SOURCE: Tyl i snabzheniye sovetskikh vooruzhennykh sil, no. 12, 1965, 75-79

TOPIC TAGS: equipment storage technique, corrosion protection, corrosion inhibitor

ABSTRACT: The problem of protecting goods and equipment (stored in the open) against atmospheric precipitation, humidity, temperature fluctuation, solar radiation, dust, wind, etc. is discussed. An effective means of combating corrosion is to enclose a piece of equipment in an air tight plastic cover and pump out the air. The use of grease and spray enamel coatings is also recommended for the protection of metal from the action of the elements. Goods and equipment are stored on concrete, cobblestones, and wooden platforms. The use of special steel and plastic storage containers is also discussed. Orig. art. has: 4 photographs.

SUB CODE: 13,15/

SUBM DATE: none

"/

Card 1/1 11b

18(3)

AUTHORS:

Grebenik, V. M., Dashevskiy, Ya. V., SOV/163-59-1-15/50

Sokolov, L. D., Sharapov, V. A.

TITLE:

Mechanization of the Charging of Furnaces for Iron Alloys

(Mekhanizatsiya zagruzki ferrosplavnykh pechey)

PERIODICAL:

Nauchnyye doklady vysshey shkoly. Metallurgiya, 1959, Nr 1,

pp 68-72 (USSR)

ABSTRACT:

In the Sibirskiy metallurgicheskiy institut (Siberian Institute of Metallurgy) a machine has been developed by the authors (Ref 1) with a rotating tube for charging furnaces for iron alloys. This is a short description of this machine. The operative part of the machine is the rotating metal tube

operative part of the machine is the rotating metal tube with a diameter of 350 mm and a length of 4.5 m. The speed of this tube is 35-45 revs/min. The tube is mounted on a special truck which can travel on a platform. In figure 1 the three characteristic positions of the tube during charging are shown: 1) at an angle with the electrode. 2) Between the electrodes and 3) Pointing into the same direction as the electrode. The machine is equipped with five electric motors

which provide the power for the following motions of the machine: rotation of the tube around its longitudinal axis,

inclination (tilting) of the tabe through an angle of 15-20

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SOV/163-59-1-15/50

Mechanization of the Charging of Furnaces for Iron Alloys

forward and backward movement of the tube for charging and withdrawing the charger, (if the machine runs on rails,) the rotation of the tube around a vertical axis and the traveling on the platform. The capacity of the machine can reach 35 t/hour in consideration of the tube inclination and the speed. The first test model of such a machine was constructed according to a simplified design due to the proposals of V. F. Volkov and I. Ya. Pelenovskiy, workers of the Zaporozhskiy ferrosplavnyy zavod (Zaporozh 'ye Iron Alloy Works). It was tested with one of the works furnaces. The results of the test runs proved to be satisfactory and demonstrated that this machine is capable of handling the charging of furnaces in accordance with technological requirements. A short summary of the experience collected in the operation of two model chargers is presented. There are 3 figures and 2 Soviet references.

ASSOCIATION:

Sibirskiy metallurgicheskiy institut (Sibirskiy Institute of Metallurgy)

Card 2/3

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548610012-3"

AUTHOR: Avakyan, A.B., Shapiro, L.N., and Sharapov, V.A.,

98-58-4-11/18

Engineers

Some Questions Pertaining to Water Reservoir Projects (Neko-

toryye voprosy proyektirovaniya vodokhranilishch)

PERICDICAL:

Gidrotekhnicheskoye Stroitel'stvo, 1958, Nr 4, pp 45-47 (USSR)

ABSTRACT:

TITLE:

These are answers to letters and questions on compensation of losses incurred by the flooding of land for water reservoirs. G.A. Chernyy is of the opinion that such losses are frequently minimized for the sake of boosting the effectiveness of hydrotechnical installations. The problem of such losses should be considered from three angles: 1) economic evaluation of the land to be sacrified, 2) economic re-settling of the farming population, and 3) compensation for the loss of agricultural production in the flooded area. There exist no hard and fast rules, nor any universal method for solving this problem, since each case differs. Any compensatory action for land losses should be preceded by an economic analysis of each ferm. All farms affected should be divided in two groups - those in need of compensation and those requiring no compensation. The case of each farm should then be considered individually and collectively, with a view to possible redistribution of the land and re-

Card 1/2

98-58-4-11/18

Some Questions Pertaining to Water Reservoir Projects

organization of the agricultural production. In view of the fact that construction of a hydroelectrical installation with an adjoining water reservoir brings about a change in the economic structure of the area in which it is located, a certain reorientation of the population should try to adapt the people to the new economic conditions. There are two Soviet references.

AVAILABLE:

Library of Congress

Card 2/2

1. Dams-Sociological factors 2. Water power-USSR 3. Dams-Evaluation analysis

AVAKYAN, A.B., inzh.; VOZDVIZHENSKIY, V.I., inzh.; SHARAPOV, V.A., inzh.

Ways of reducing expenses for preparatory operations in constructing reservoirs. Gidr.stroi. 29 no.3:28-31 Mr '60. (MIRA 13:6)

(Reservoirs)

AVAKYAN, A.B.; SHARAPOV, V.A.

Reservoir classification for hydroelectric power stations of the U.S.S.R. Izv. vses. geog. ob-va 92 no.6:515-521 N-D '61. (MTRA 14:1)

(Hydroelectric power stations)
(Reservoirs--Classification)

AVAKYAN, Artur Borisovich; SHARAPOV, Vladimir Alekseyevich; BOGATYREV,
V.V., red.; BORUNOV, N.I., tekhn. red.

[Reservoirs of the hydroelectric power stations of the U.S.S.R.]
Vodokhraniishcha gidroelektrostantsii SSSR. Moskva, Gos.energ.
(MIRA 15:9)

izd-vo, 1962. 151 p.

(Hydroelectric power stations—Water supply)

(Reservoirs)

AVAKYAN, A.B.; SMETANICH, V.S.; SHAPIRO, L.N.; SHARAPOV, V.A.

Reservoirs of the U.S.S.R. and the prospects for their construction.
Vop. geog. no.57:58-77 162.

(Resevoirs) (Hydraulic engineering)

GLUKHOV, F.P., nauchm. sotr.; LUMHACHEV, B.I., nauchm. Ltor.;
TSYBYKTAROVA, D.S., nauchm. sotr.; Lander V.S., kand.
jet. nauk. glav. red.; GOVORKOV, A.A., kand. ist. rack,
red.; TUTOLLINA, O.M., kand. ist. nauk, red.;
CHERLY SHEVA, V.I., red.; CHARAFOV, V.A., nauchm. sotr.;
red.; SIEKHO, Kh.S., red.

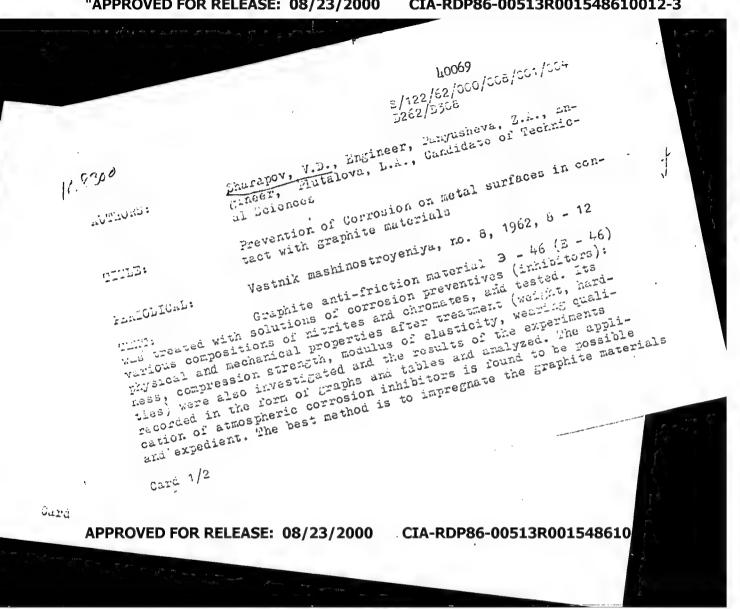
[The working class' effort for the reconstruction and development of Far Eastern industry, 1922-1925; collection of documents and materials] Bor'ba rabochego klassa za vosstanovlenie i razvitie promyshlennosti Dal'nevostocamei oblasti(1922-1925 gg.); sbornik dokumentov i materialcv. Khabarovsk, Khabarovskoe knizhnoe izd-vo, 1962. 412 p. (MIRA 17:9)

1. Zaveduyushchaya arkhivnym otdelom Khabarovskogo Krayevogo ispolnitel'nogo komiteta (for Chernysheva). 2. TSentral'nyy gosudarstvennyy arkhiv HSFSR Dal'nego Vostoka (for Sharapov).

RYBALKIN, C.I., inzh.; SHARAPOV, V.A., inzh.; VELIKIY, I.G., inzh.;
MALIOVANOV, D.I., doktor tekh. nauk; PRUZINIER, V.L., inzh.;
KONDORSKIY, R.L., inzh.; TUMANOV, V.Ya., inzh.; POGORELOV,
A.K., kand. tekhn. nauk

The BUKS-I equipment is an important step in the accomplishment
of overall mechanization of shaft sinking. Shakht. stroi. 9 no.2:
1-3 F '65.

1. Kombinat Luganskshakhtostroy (for Rybalkin, Sharapov, Velikiy).
2. TSentral'nyy nauchno-issledovatel'skiy i proyektno-konstruktorskiy
institut podzemnogo i shakhtnogo stroitel'stva (for Maliovanov,
Pruzhnier, Kondorskiy, Tumanov, Pogorelov).



SHARAPOV, V.D., inzh.; PANYUSHEVA, Z.A., inzh.; PLUTALOVA, L.A., kand.

Preventing corrosion of metal surfaces contacting graphite materials. Vest.mashinostr. 42 no.8:8-12 Ag | 62. (MIRA 15:8) (Graphite) (Metals--Corrosion)

ACCESSION NR: AP4026851

s/0065/64/000/004/0036/0039

AUTHORS: Gerasimov, I.I.; Korotnenko, V.P.; Zakharov, N.A.; Putilov, V. Ye.; Sharapov, V.D.

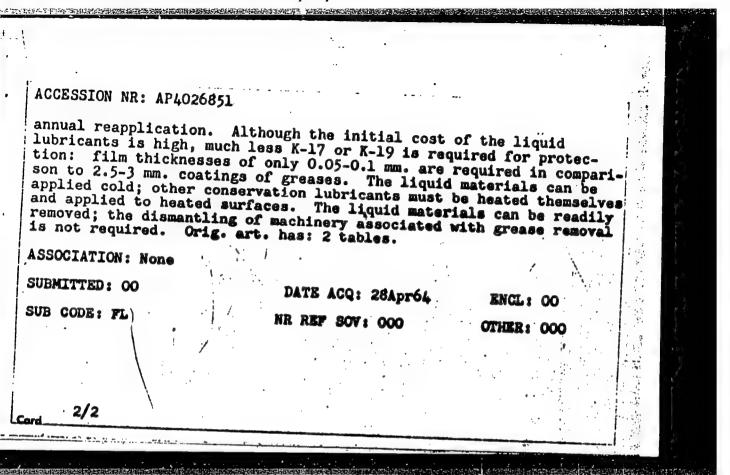
TITLE: The profitableness of using liquid conservation lubricants for the protection of maritime equipment

SOURCE: Khimiya i tekhnologiya topliv i masel, no. 4, 1964, 36-39

TOPIC TAGS: preservation lubricant, conservation lubricant, grease, oil, liquid conservation lubricant, economics, cost reduction, labor reduction, K-17 conservation lubricant, K-19 conservation lubricant, application

ABSTRACT: The drawbacks of conservation greases and the economies effected by liquid lubricants are discussed. Cost estimates are , based on the application of K-17 and K-19 liquid conservation lubricants introduced in 1959 by the VNIINP. Examples are given of savings in labor due to the comparative ease of applying the liquid materials in comparison to the solid, and the longer preservation effected (3 years) by the liquid materials, eliminating need for

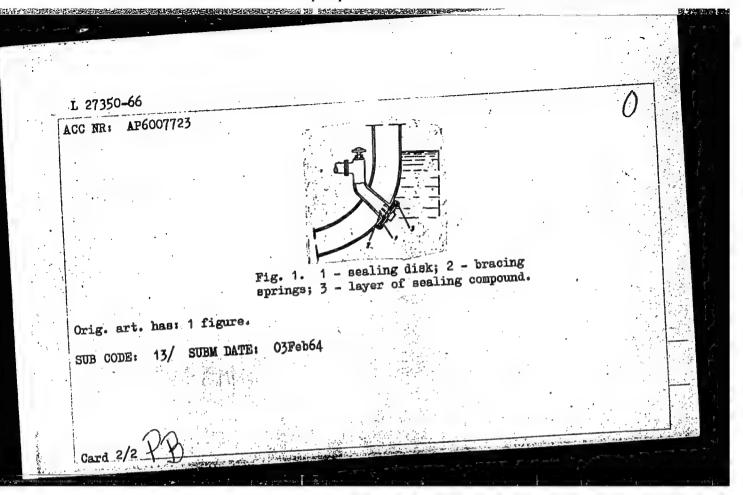
Card 1/2



EWI(m)/EPF(e)/ENA(d)/I/ENP(t)/ENP(b) Pr-4 EN/JD/NB/DJ UR/0375/65/000/002/0069/0072 ACCESSION NR: AP5013412 AUTHOR: Korotnenko, V. P. (Engineer, Captain); Gerasimov, I. I. (Candidate of technical sciences, Engineer, Lieutenant colone); Zakharov, N. A. (Engineer, Commander); Putilov, V. Ye.; Sharapov, V. E. (Engineer, Lieutenant commander) TITLE: Liquid protective lubricants as a new way of preserving marine equipment SOURCE: Morskoy sbornik, no. 2, 1965, 69-72 TOPIC TAGS: liquid lubricant, thin film lubricant, oil additive, ship storage, protective oil, corrosion prevention ABSTRACT: The article discusses the so-called liquid or thin-film lubricants used for the storage of ships, particularly brands K-17 and K-19. Such lubricants are based on aviation oil MS-20 and transformer oil, and can also be called protective oils. Additives introduced into these oils provide protection for ferrous and nonferrous metals under conditions of high humidity and salt content of the atmosphere for long periods of time. The composition, physico-chemical properties, areas of use, and technological process employed in applying K-17 and K-19 are described. Liquid protective lubricants save a considerable amount of labor Card 1/2

L 53913-65 ACCESSION NR: AP5013412 (by a factor of up to 4) and guarantee one year of protection of the equipment (internal combustion engines, auxiliary turbine mechanisms, bearings, etc.). Tests under various climatic conditions showed, however, that they protect metal surfaces against corrosion for no less than five years. Thus, the use of liquid lubricants K-17 and K-19 instead of lubricating greases increases the reliability of the storage, simplifies the process of preparation for storage, and considerably reduces the cost and labor. Orig. art. has: 2 tables. ASSOCIATION: None SUBMITTED: ENCL: 00 SUB CODE: NO REF SOV: 000 OTHER: 000

CC NR: AP6007723	(N)	SOURCE CODE: UR/O	WP(1) WW/RM/WH 413/66/000/003/01	34/0134
JTHORS: Sharapov	, V. D.; Balashov, B	. G.; Rybachek, L. T.		25
RG: none			-	B
ITLE: Device for muising. Class 6	hermetic underwater 5, No. 178699	sealing of an opening	g in a ship body	during
OURCE: Izobreten:	iya, promyshlennyye	obraztsy, tovarnyye z	naki, no. 3, 1966	, 134
OPIC TAGS: ship	component, shipbuild:	ing engineering		
pening in the ship ealing disk. To o prings and a layer	p's body during cruis simplify construction	cribes a device for unsing. The method income, the sealing disk is d. The sealing disk is	orporates the use	of a
de suriace of the	•	F		
ue suriboe of the			•	



BOCHKOV, Nikolay Vasil'yevich, professor, doktor ekonovicheskikh nauk; PERSHIN, P.N., doktor ekonomicheskikh nauk; SNEGIREV, M.A., kandidat sel'skokhozyaystvennykh nauk; SHARAPOV, V.F., doktor istoricheskikh nauk [deceased]; OZEROV, V.N., redaktor; BALLOD, A.I., tekhnicheskiy redaktor

[The history of land relationships and the organization of land use] Istoriia zemel'nykh otnoshenii i zemleustroistva. Pod red. N.V.Bochkova. Moskva, Gos. izd-vo selkhoz. lit-ry, 1956. 247 p. (MLRA 9:8) (Land tenure) (Agriculture)

SHARAPOV, Vasiliy Ivanovich; LUK'YANOVICH, I., red.; YER!OLENKO, V., tekh. red.

[Minsk in the seven-year plan] Minsk v semiletke. Minsk, Gos.
[izd-vo BSSR, Red. massovo-polit. lit-ry, 1961. 77 p.
[izd-vo BSSR, Red. massovo-polit. lit-ry, 1961. 77 p.
[MIRA 15:4)

1. Predsedatel' ispolnitel'nogo komiteta Minskogo gorodskogo
Soveta deputatov trudysshchithsya (for Sharapov).

(Minsk-Economic policy)
(Minsk-Civic improvement)

CIA-RDP86-00513R001548610012-3 "APPROVED FOR RELEASE: 08/23/2000

v.I. 2,44RAPOU

USSR/Chemical Technology. Chemical Products and Their Application -- Treatment of natural gases and petroleum. Motor fuels. Lubricants,

I-13

Abst Journal: Referat Zhur - Khimiya, No 2, 1957, 5561

Author: Sharapov, y. I.

None Institution:

Effect of Water on Stability of Additives in Motor Oils Title:

Publication: Khimiya i tekhnol. topliva, 1956, No 4, 63-64

Using a method developed by the author an investigation was made of Abstract:

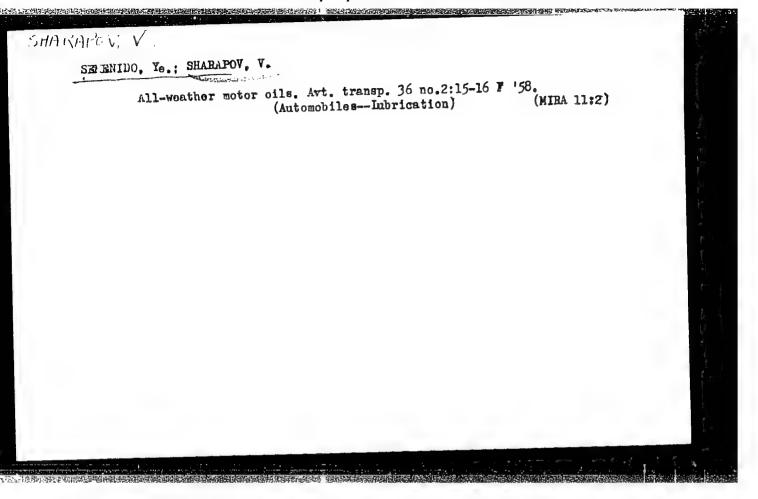
the removal by water of various additives from the oil. Even a small amount of water (0.5%) removes a considerable portion of additive (up to 70%) from the oil, and this removal is not dependent on the viscosity of the oil but is determined by the nature of the additive. Most readily removed are the additives AzNII-4, AzNII-7 and IP-2, to the extent of 69, 50 and 41%, respectively; the ZIT additive is not removed from oil by the water. Additive AzNII-TsIATIM-1, of differ-

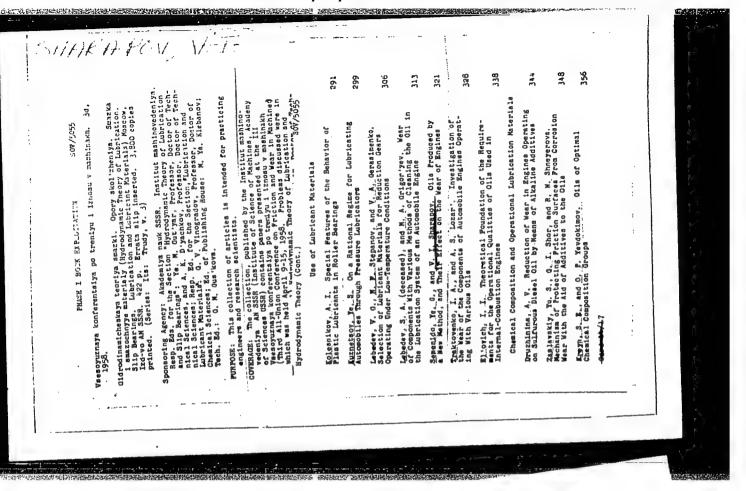
ent batches is removed in different amounts: from 5 to 30%.

Card 1/1

Controlling seed drop of hemp and Chinese bell flower with the aid of 2,4-D. Zemledelie 4 no.5:120 My '56. (MLRA 9:8)

1. Severo-Kavkazskaya opytnaya stantsiya lubyanykh kul'tur. (Hemp) (Mallow) (2,4-D)





S/122/60/000/007/004/011 A161/A029 Semenido, Ye.C., Professor, Doctor of Technical Sciences; Shohegolev, N.V., Candidate of Chemistry; Sharapov, V.I., Engineer Application of High Polymers in Lubrication Oils AUTHORS: Vestnik mashinostroyeniya, 1960, No. 7, pp. 38 - 41 The article contains brief general information on the applications, properties and advantages of high-polymer additives to lubricant oils. The in-TITLE: properties and advantages of high-polymer addresses to rubricant offs. The in-formation sources referred to are mostly US and German (West Germany) patents and the proceedings of the 1957 International Petroleum Congress. It is claimed that PERIODICAL: the best effect is obtained by application of polymer additives used in Soviet high-quality motor oils on low-molecular base, produced by a Soviet method, and high-quality motor oils on low-molecular base, produced by a Soviet method, and high-quality motor oils on low-molecular base, produced by a Soviet method, and high-quality motor oils on low-molecular base, produced by a Soviet method, and high-quality motor oils on low-molecular base, produced by a Soviet method, and high-quality motor oils on low-molecular base, produced by a Soviet method, and high-quality motor oils on low-molecular base, produced by a Soviet method, and high-quality motor oils on low-molecular base, produced by a Soviet method, and high-quality motor oils on low-molecular base, produced by a Soviet method, and high-quality motor oils on low-molecular base, produced by a Soviet method, and high-quality motor oils on low-molecular base, produced by a Soviet method, and high-quality motor oils on low-molecular base, produced by a Soviet method, and high-quality motor oils on low-molecular base, produced by a Soviet method, and high-quality motor oils on low-molecular base, produced by a Soviet method where the produced nign-quality motor oils on low-molecular base, produced by a Soviet method and specified in the FOCT 1862-51 (GOST 1862-51) standard Trechnical Standards To specified in the FOCT 1862-51 (GOST 1862-51), standard Trechnical Standards Trechni retroleum rroducts (Mei. 1), Gostopteknizdat, 1950. It is pointed out that a series of additives to oils WATMM-339 (TSIATIM-339), BHWW HII -361 (VNII NP-361), BW series or additives to oils qualum-339 (TSIATIM-339), BHNN HII-361 (VNII NP-361), NII-22 (IP-22) and other BHNN HII-360 (VNII NP-360), BHNN HII-361& (VNII NP-361a), NII-22 (IP-22) and other (Table 3) proved to be not applicable with polyacrylates, though in oil compact. (Table 3) proved to be not applicable with polyacrylates, though in oil compositions including polygicable with polyacrylates. tions including poly-isobutylene they behave normally; polyacrylate in its turn, Card 1/2

Application of High Polymers in Lubrication Oils

S/122/60/000/007/004/011 A161/A029

in other combinations (i.e., with antioxidant additives), is a valuable viscous additive. These data are recommended to take into account. There are 7 graphs, 3 tables and 17 references: 4 Soviet, 9 English and 4 German.

Card 2/2

89959

2209, 1583 15,6600

5/065/61/000/002/005/008

E194/E284

AUTHORS:

Kaverina, N. I. and Sharapov, V. I.

TITLE:

Alteration in the Viscosity of Thickened Oils as a Consequence of Thermal Degradation of the Polymer

Khimiya i tekhnologiya topliv i masel, 1961, No. 2,

FERIODICAL:

pp. 52-57

The stability of lubricants thickened with polymers depends mainly on the thermal and mechanical stability of the polymer. Thermal and mechanical degradation of the polymer reduces the molecular weight of polymer in the oil so reducing the viscosity of the blended oil. Experimental results are quoted to demonstrate the reduction in viscosity of oils thickened with various amounts of polyisobutylene 7.20 (P-20) of molecular weight 20 000 and 7.30 (P-30) of molecular weight 30 000. It is found that the viscosity increment resulting from addition of polymer increases with the polymer concentration and accordingly a given amount of polymer degradation will cause different viscosity changes in solutions with different concentrations of polymer. curves of polymer degradation are compared with curves of oil

Card 1/4

89959

S/065/61/000/002/005/008 E194/E284

Alteration in the Viscosity of Thickened Oils as a Consequence of Thermal Degradation of the Polymer

thickening by the same polymers it is possible to assess the apparent change in polymer concentration expressed as a percentage, which is equivalent to the reduction in viscosity observed in given time intervals, this change is denoted as. Tests made with turbine oil thickened with additives P-20 and P-30 in amounts of turbine oil thickened with additives P-20 and P-30 in amounts of turbine oil thickened with additives P-20 and P-30 in amounts of turbine oil thickened with additives P-20 and P-30 in amounts of turbine oil thickened with additives P-20 and P-30 in amounts of the absolute value of 10, the values appreciable differences in the absolute value of 10, the values appreciable differences in the absolute value of 10, the values appreciable differences in the absolute value of 10, the values appreciable differences in the absolute value of 10, the values appreciable differences in the absolute value of 10, the values appreciable differences in the absolute value of 10, the values appreciable differences in a given the interval at this polymer that is degraded in a given time interval at this polymer that is degraded in a given time interval at this polymer that is degraded in a given time interval at this polymer that is practically proportional to the concentration of it the oil. A similar result was found in tests on the degradation of vinypol of molecular weight 9 000. It should be noted that at of vinypol of molecular weight 9 000. It should be noted that \(\text{\text{C}} \) is corresponds to a large change in viscosity. It is found that \(\text{\text{C}} \) is corresponds to a large change in viscosity. It is found that \(\text{\text{C}} \) is corresponds to a large change in viscosity.

Card 2/4

39959 3/C65/61/000/002/005/008 E194/E284

Alteration in the Viscosity of Thickened Oils as a Consequence of Thermal Degradation of the Polymer

at constant rate depending only on the total concentration of polymer. The same effect is confirmed by curves of change of viscosity during the process of degradation. After twelve hours at 200°C the value of Δc for vinypol is 4.4 whilst for solutions of polyisobutylene of higher molecular weight and the same concentration this amount of degradation is observed only after 60-70 hours for additive P-30 and 100 hours for P-20. With vinypol as with polyisobutylene Ac is a linear function of time. The results show that vinypol is appreciably less stable than the polyisobutylene. As it is of interest to assess the influence of temperature on the stability of polyisobutylene and vinypol over the working temperature range tests were made at temperatures between 20 and 250°C. With polyisobutylene the first signs of degradation are observed at 100°C and thereafter degradation accelerates with increasing temperature. If curves are plotted of the fall in concentration &c which is equivalent to the viscosity change observed in 12 hours at various temperatures it is found

Card 3/4

89959

S/065/61/000/002/005/008 E194/E284

Alteration in the Viscosity of Thickened Oils as a Consequence of Thermal Degradation of the Polymer

that the temperature coefficient of degradation i.e. the rate of degradation on changing the temperature by 1° increases somewhat with increase in the molecular weight of polymer and with increase of temperature. However, the change in the absolute value of the temperature coefficient of degradation that results from these factors remains small within the range of temperature and molecular weight considered. Tests made with vinypol show that the degradation is about three times greater than that of polyisobutylene under the conditions tested. The selection of molecular weight of polymer for use in blending oils is often of importance and the thermal stability of the oil should be considered in such blends. Tests were made on a number of oils of equal viscosity produced by thickening turbine oil with various amounts of polymers of different molecular weights. Heating tests show that the higher the molecular weight of the polymer the greater the observed drop in viscosity and accordingly from the standpoint of stability of viscosity polymers of lower molecular weight are advantageous. There are 7 figures, 5 tables and 3 Soviet references. Card 4/4

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548610012-3 5/065/61/000/009/003/003 Semenido, Ye.G., and Shchegolev, N.V. Regulation of the fractional composition of base oils Regulation of the iractional composition of passe as a means of radically improving their quality Sharapov, V.I. PERIODICAL: Khimiya i tekhnologiya topliv i masel, principles are evolved experimentally for improving principles are evolved experimentally for improving in the initial and final boiling the initial and final state of the cuts, and using additives. The principles are of the cuts, and using additives. AUTHORS: nubricants by accurately controlling the initial and final bolling the initial and final points of the cuts, and using additives. The principles are points of the cuts, although the details of the base oils are interest in the West. points of the cuts, and using additives. The principles are of the base oils of the base oils determined in the west, although the details of the oils will be interest interest. The initial boiling point is the oils will be secondary interest. Secondary interest air temperatures in which the oils will be primarily by the ambient air temperatures. TITLE: Secondary interest. The initial boiling point is determined the oils will be the oils will used. Ye.G. Semenido, I.A. Ivanov and I.N. Kaverina (Ref. 10: than lubricants not more lubricants not minimize NKh No.1: 1955) showed below 340 oc may be included. to minimize below 340 oc may be included. NKh No.1; 1955) showed that for automobile lubricants not more the included, to minimize oc may be included, to minimize the standard for automobile lubricants not more than 5% of material boiling below 340 oc may be included, the minimize than 5% of material boiling below diesel lubricants not more than 5% loss by evaporation, and for diesel lubricants ZEXII : 5% of material boiling below 340 oc may be included, to minimize than 5% of material boiling below 340 oc may be included, to than 5% loss by evaporation, and for the final boiling point is loss by evaporation, included. The final boiling primarily for ensuring good low temperature properties the low 320 oc may be included. The final boiling primarily for ensuring good low temperature properties. below 320 °C may be included. The final boiling point is temperature properties determined primarily for ensuring good low temperatures are below inoting that for more than 50% of the USSR temperatures. card 1/3

s/065/61/000/009/003/003 E030/E135

O oc for 130-300 days, and January temperatures are around -20 to Regulation of the fractional 50 °C. For Arctic and winter grades, viscosities at -30 °C should be specified. The final boiling point was increased in 25 oc intervals from 350 to 425 oc for oil cuts from five crudes; Makat Jurassic, Baku commercial mixture, Buzovny, Binagady, and commercial Eastern mixture from the NKPZ. For the first two and the last one, the ratio of viscosity at 50 oc to that at 100 oc rose by about one, from values around 2.4 or 2.7 to around 3.7 to 3.8. but for the Buzovny and Binagady the rise was much greater. By adsorption of the Buzovny over silica gel, it was found that only the aromatics caused the rise, and the naphtheno-paraffinic components had excellent viscosity indices. The aromatics were similarly the prime cause of carbon deposits. Such results also hold with thickened oils (using polyisobutylene, MW around 20 000). By altering cut point, viscosity additives, and thickener ratio, a wide range of satisfactory oils was obtained. For automobile engines, up to 50% of material up to 500 °C could also be added, provided the ON were also increased by 7-8 by using additives. There are 5 figures, 3 tables and 10 references; 3 Soviet and 7 non-Soviet. Card 2/3

3년⁸93 \$/081/62/000/003/074/090 B171/B102

11,9700

AUTHORS: Semenido, Ye. G., Vakurov, P. S., Shchegolev, N. V.,

Sharapov, V. I., Zarubin, A. P., Zakharov, G. V.

TITLE: Influence of a sulfurous base of condensed oil upon the

engine

PERICDICAL: Referativnyy zhurnal. Khimiya, no. 3, 1962, 493-494,

abstract 31227 (Sb. "Khimiya seraorgan. soyedineniy,

soderzhashchikhsya v neftyakh i nefteproduktakh. v. 4" M.,

Gostoptekhizdat, 1961, 212-216)

TEXT: The results are given of investigations of the performance of the bodied up AC_{π} -10 (AS_p -10) test oil obtained from sulfurous petroleum. It has been shown that the bodied up sulfurous base (without multifunctional additive) has a relatively low corrosive effect (9 g/m² in 50 hrs) and is, in this respect, superior to the Baku petroleum base. This is explained by the positive influence of the natural S-compounds present in the oil of Novo-Ufimskiy zavod (Novo-Ufa Plant). Investigations of effectiveness of different additives permitted the selection of the BHMMHT-365a (VNIINP-365a) Card 1/2

S/081/62/000/003/074/090
Influence of a sulfurous base ...
B171/3102

multifunctional additive, to the test oil. This additive is a mixture of Ba alkylphenolate and of a sulfurous compound. It has been established by 600-hr tests in a $\Gamma A3-51$ (GAZ-51) engine that the test oil with S-content (5) and with the above additive shows a performance superior to the industrial-50 and (A) and (A) Baku oils. Abstracter's note: Complete translation.

Card 2/2

S/081/62/000/005/092/112 B160/B138

AUTHORS: Semenido, Ye. G., Sharapov, V. I., Shchegolev, N. V.

TITLE: Effect of viscosity index improvers on the working properties

of oils

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 5, 1962, 531, abstract

5M235 (Sb. "Prisadki k maslam i toplivam", M., Gostoptekhiz-

dat, 1961, 357 - 365)

TEXT: The article discusses permissible concentrations of polymers in thickened heavy diesel engine oils and the selection of the optimum molecular weight of polymers as viscosity index improvers. It was found that high concentrations (up to 10%) of polyisobutylene can be used to obtain thickened heavy dieselcils on a low-viscosity base; the optimum molecular weight is 20,000. The problem of combining polymer, polyfunctional and other additives is discussed together with that of the effect of polymers on the anti-wear properties of oils. Abstracter's note: Complete translation.

Card 1/1

KAVERINA, N.I.; SHARAPOV, V.I.

Viscosity change of thickened oils as the result of the thermal destruction of a polymer. Khim.i tekh. topl.i masel 6 no.2:52-57

F '61. (MIRA 14:1)

(Lubrication and lubricants) (Polymers)

SHARAPOV, V.I.; SEMENIDO, Ye.G.; SHCHEGOLEV, N.V.

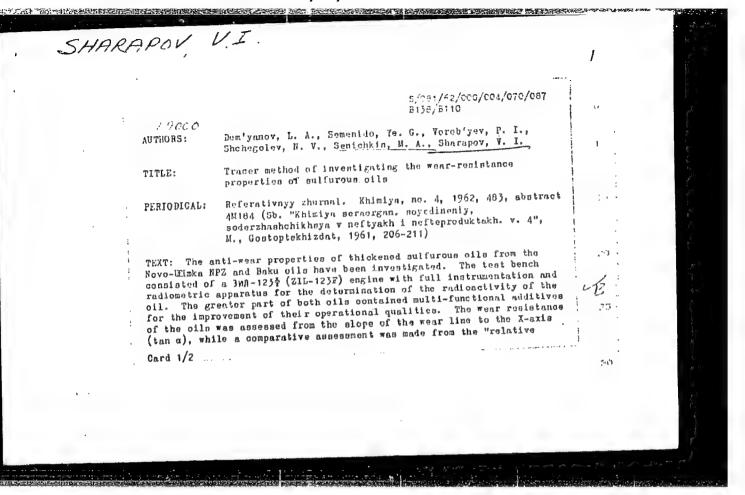
Control of the fractional composition of the base of oils as a method for the radical improvement of their quality. Khim.i tekh. topl.i masel 6 no.9:32-37 S '61. (MIMA 14:10) (Lubrication and lubricants)

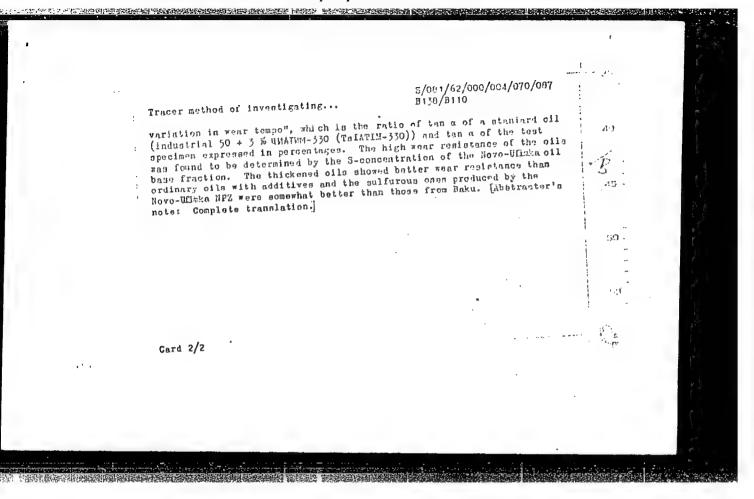
SHARAPOV, V.I.; FOMINA, A.M.

Determination of the saturated vapor pressure of motor fuels in accordance with the All-Union Standard 6668-53. Khim. i tekh. (MIRA 15:1) topl.i masel 7 no.1:64-65 Ja '62. (Wapor pressure)

(Motor fuels)

(Vapor pressure)





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是这个人,我们也是是我们的时间的时候,只是没有一种的国际的事情,但是这种的人,也是是我们的人,也可以是我们的人,也不能不要。 第一

CIA-RDP86-00513R001548610012-3

S/262/62/000/008/016/022 I007/I207

AUTHORS:

Semenido, E. G., Vakurov, P. S., Shchegolev. N. V., Sharapov, V. I., Zarubin, A. P. and

Zakharov, G. V.

TITLE:

Influence of the sulfur content of condensed lube oil on engine performance

PERIODICAL:

Referativnyy zhurnal, otdel'nyy vypusk. 42. Silovyye ustanovki, no. 8, 1962, 58, abstract

42.8.312. In collection "Khimiya sero-organ. soyedineniy, soderzahashichikhsya v neftyakh

i nefteproduktakh, Moscow, Gestoptekhizdat", v. 4, 1961, 212-216

TEXT: Data are reported on the study of the operating qualities of the experimental ACΠ-10 (ASP-10) lube oil (selective motor-car lube oil, mixed with an all-purpose additive and condensed by addition of polybutylene, to a viscosity of 100 centistokes at 100 °C) as well as results of 600-hour bench testing of the ΓΑ3-51 (GAZ-51) engine. The sulfur-containing (S up to 1%) ASP-10 oil mixed with the ΒΗΜΗΠ-361a (VNIINP-361a) additive proved to have higher qualities than Baku lube oils, such as, the commercial grade-50 oil and the ΑΚΠ-10 (ΑΚΡ-10) oil (Α3ΗΜΗ-8) [AzNIN-8]). There are 5 tables and 4 references.

[Abstracter's note: Complete translation.]

Card 1/1

RYABOVA, A.S.; BELOVA, S.R.; SHARAPOV, V.I.

Determination of the tetraethyl-lead content in automobile gasoline by the chromate method. Nefteper. i neftekhim. no.2:11-12 '63. (MIRA 17:1)

SHARALOV; V.I. FCHIMA, A.M.

[Jetermining the tars present according to All-Union State
Standards 8489-58. Nefteper. i neftekhim. no. 3:16-18 '64.

(MIRA 17:5)

L 22629-65 EWT(m)/EPF(c)/EWA(d)/T/EWP(t)/EWP(b) Pr-4 IJP(c) JD/WB/DJ
ACCESSION NR: AP5001628 S/0318/64/000/012/0028/0029

AUTHOR: Sharapov, V. I., Fomina, A. M.

TITLE: Preparation of lead sheets used for determining the corrosion activity of oils according to GOST 5126-49 and GOST 8245-56

SOURCE: Neftepererabotka i neftekhimiya, no. 12, 1964, 28-29

TOPIC TAGS: oil corrosiveness, corrosion testing, lead corrosion, lubricating oil, lead polishing, chemical polishing

ABSTRACT: A rapid and reliable method is presented for cleaning and polishing the lead sheets used in standard Soviet corrosion tests for lubricants (Gost 5126-49) and Gost 8245-56). The sheets are immersed for 10-15 min. in chemically pure 2 N hydrochloric acid, washed with water, and dried with filter paper. Results obtained by both methods and with both highly corrosive oils and high-quality lubricants were readily reproducible, whereas larger deviations were obtained with lead sheets which were polished by the standard mechanical method. The proposed technique and mechanically polished sheets gave similar corrosion values. The sheets can be used 5 times if prepared by the new technique, and they can be produced

Card 1/2

L 22629-65

ACCESSION NR: AP5001628

from large sheets or by casting or rolling. Orig. art. has: 3 tables.

ASSOCIATION: None

SUBMITTED: 00 ENGL: 00 SUB CODE: FF, IE

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ا سرار ب	L 552li3-65 EWT(m)/EPF(c)/EPR/EWP(j)/T Pc-li/Pr-li/Ps-li RPL WW/DJ/RM UR/0065/65/000/006/0053/0055 539.55:665.521.5	100
	L 55243-65 EWT(m)/EFF(C)/ACCESSION NR: AP5014952 539.55.665.521.5	
	[
	Viscosity properties of olis units	
-	TITLE: Viscosity properties of oils unasel, no. 6, 1965, 53-55 SOURCE: Khimiya i tekhnologiya topliv i masel, no. 6, 1965, 53-55 TOPIC TAGS: lubricating oil, engine, lubricant viscosity, viscosity measurement, zur the viscosity of polymer- polymer, polymethacrylate, polyisobutylene/ GAZ 51 engine, zur the viscosity of polymer-	
	DULYMON I THE STANK OLD THE ST	
	ABSTRACT: The effect of a shifting rotation viscosimeter in an aregistered,	
	the oil specimens remained for 30 minutes of the shifting velocity gradient character-	
	those at the beginning of a crament the action of shift. This	
d,	those at the beginning the studied here are tabulated the action of shift istics of oil mixtures studied here are tabulated under the action of shifting velocity gradient, of a polymer-thickened oil was lowered temporarily under the action of a polymer-thickened oil was lowered temporarily under the shifting velocity gradient, of a polymer with the increase in the shifting velocity gradient, effect, which became greater with the increase in the stream. It was explained by the orientation of polymer molecules in the stream. We are explained as a parameter E, indicating the degree of the temporary viscosity	
	expressed as a parameter C, imittating	
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L 55213-65

ACCESSION NR: AP5014952

lowering and representing the ratio of the viscosity at the gradient 6 sec-1 to that at the 158 sec-1. The straight-line relation of E to the molecular weight of a polymer (polyisobutylene) was determined experimentally, and is shown in Fig. 1 on the Enclosure. Figure 2 shows the same relation with respect to oil viscosity. With the increase in oil viscosity, E increased regardless of the polymer type and its molecular weight. It decreased with the rise of temperature. This feature favorably affected the starting properties of motor oils at low temperatures. Experimental results sustained the statement of E. Klays and I. Fenske (Lubric. Engin. March-April, 1955, p. 101) that a temporary loss of viscosity in thickened oils makes them pass through small openings faster than the equiviscous Newton fluid. This effect was regulated by a proper combination of molecular weights of polymers and basic oils. The regularities established helped to solve the problems of lubricant application in engines like GAZ-51 and ZIL-120, characterized by high gradients of shifting velocity (304 000 - 310 000 sec-1). Orig. art. has: 1 table and 2 figures.

ASSOCIATION: none

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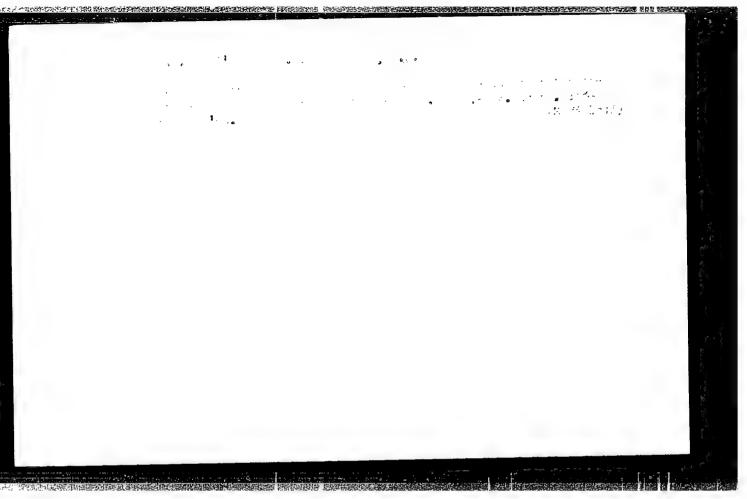
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Card 2/h



I. 15249-66 EWT(m)/EWP(i)/T DJ/RM

ACC NR: AP6001882 (A) SOURCE CODE: UR/0065/65/000/012/0044/0047

AUTHORS: Sharapov, V. I.; Vilenkin, A. V.; Kichkin, G. I.

ORG: none

TITLE: Influence of polyisobutylene on the wear-resistant properties of an oil base

SOURCE: Khimiya i tekhnologiya topliv i masel, n. 12, 1965, 44-47

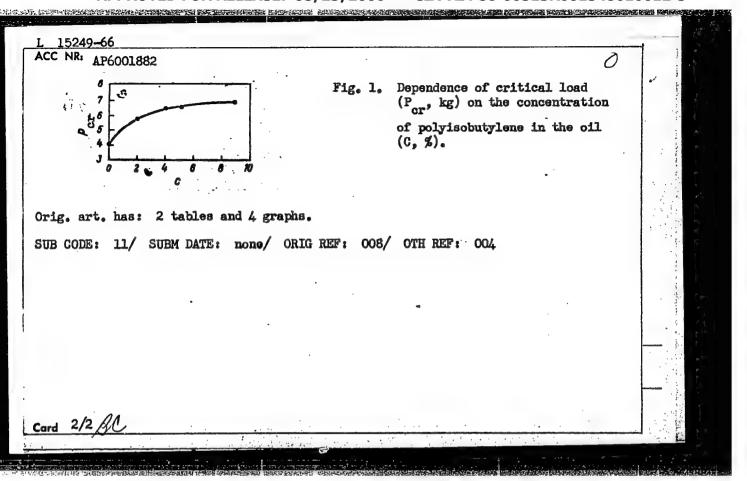
TOPIC TAGS: lubricant, lubricant additive, polyisobutylene, organic lubricant

ABSTRACT: The effect of polyisobutylene additive on the wear-resistant properties of a number of <u>lubricating oils</u> was studied. The experimental technique employed is described by K. I. Klimov and A. V. Vilenkin, (Avtor. svid. No. 121967). The dependence of the critical load on the concentration of polyisobutylene, the effect of the molecular weight of the polyisobutylene on the wear-resistant properties of the oils, and the temperature dependence of the latter were studied. The experimental results are presented in graphs and tables (see Fig. 1). It was found that the addition of polyisobutylene improved the lubricating properties of the oils, the effect being more pronounced the lower the molecular weight of the additive. The protective action of polyisobutylene decreased with increasing temperature. It is suggested that the additive improves the lubricating properties of the oil by forming a protective film on the frictional surface.

Card 1/2

UDG: 541.6:66.022.37:665.521.5

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SHARAPOV, V.M., aspirant

Therapy and prophylaxis of trichophytosis in Karakul sheep. Veterinariia 39 no.8:31-34 Ag '62. (MIRA 17:12)

l. Vsesoyuznyy nauchno-issledovatel'skiy institut veterinarnoy sanitarii.

SHARAPOV, V.M., asperant

Ways for the elimination of trichophytosis in Karakul sheep. Veterinarita 41 nc.3338-40 Mr *64. (MIRA 18:1)

1. Vsesovuznyy nauchno-issledovateliskiy institut veterinarnoy sanitarii.

NGSKOV, A.I., kand. veterin. nauk; SHARAPOV, V.M., mladshiy nauchnyy sotrudnik

Toxicity of mixed feeds infected with fungi. Veterinariia 41 no.1:84-85 Ja '65. (MIRA 18:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut veterinarnoy sanitarii (for Noskov). 2. Biologicheskiy institut Sibirskogo otdeleniya AN SSSR (for Sharapov).

L 1677-66

ACCESSION NR: AR5018560

UR/0299/65/000/014/B043/B043

SOURCE: Ref. zh. Biologiya. Svodnyy tom, Abs. 14B320

AUTHOR: Sharapov, V. M.

TITLE: Antibiotic and toxigenic properties of fungi isolated from the intestines of Eastern May beetle larva

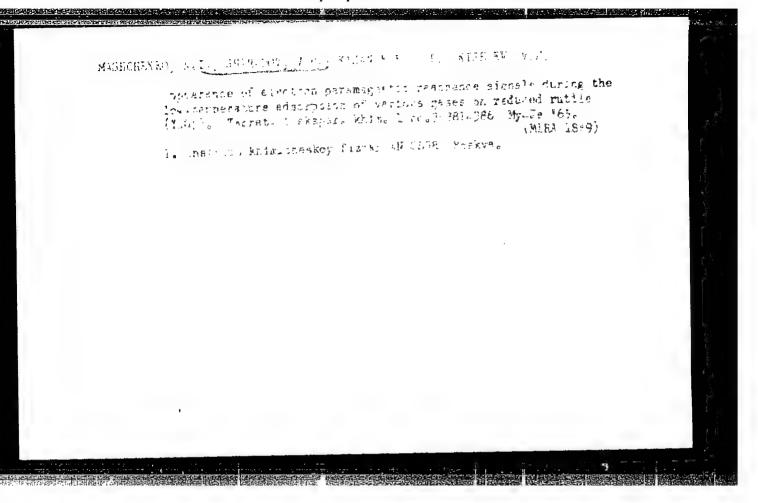
CITED SOURCE: Sb. Issled. po biol. metodu bor'by s vredit. sel'sk. i lesn. kh-va. Novosibirsk, 1964, 107-111

TOPIC TAGS: fungus, toxicology, antibiotic, insect control, bacterial disease

TRANSLATION: Of 32 investigated strains of fungi from the intestines of May beetle larva, 20 antibiotic substances were isolated out into an external medium. With respect to the number of antagonists, the types of fungi were distributed as follows in descending order: Tylchoderma, Penecillium, Acremorium, Helicomyces, and Sordavia. The greatest number of antagonists were related to Bacillus, dendrolimus, and then to Bacillus subtilis and Bacillus tumescens, Bacillus,

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	resistant to all tes course of 50 days, st i not lower the antibi			
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MASIYAKOV, Vasiliy Nikolayevich; ARNSHTEYN, G.E., retsenzent; SHIRINKIN,
A.D., retsenzent; SHARAPOV, V.N., red.; YERMETEV, P.G., red.;
FEDYAYEVA, N.A., red. izd-va; RIDNAYA, I.V., tekhn. red.

[Raft towing]Buksirovka plotov. Moskva, Izd-vo "Rechnoi transport," 1962. 185 p.

(Towing) (Rafts)

SHARAPOV, V.N.

Relations between dikes, skarns, and ores in the Sheregoshevskoye deposit in Gornaya Shoriya. Geol i geofiz. no.9:68-75 '60. (MIRA 14:2)

1. Institut geologii i geofiziki Sibirskogo otdeleniya AN SSSR, Novosibirsk. (Gornaya Shoriya—Geology, Economic)

LAPIN, S.S.; SHARAPCV, V.N.

Genesis of the Abakan iron ore deposit (Western Sayan Mountains).

Geol. i geofiz. no.4:36-51 '61. (MIRA 14:5)

1. Institut geologii i geofiziki Sibirskogo otdeleniya AN SSSR,

Novosibirsk.

(Abakan region (Sayan Mountains).—Ore deposits)

OLEYNIKOV, B.V.; SHARAPOV, V.N. Trappean volcanism in the western Siberian Platform. Geol. i geofiz. no.6:51-60 '61. (MIRA 14: (MIRA 14:7)

1. Institut geologii i geofiziki Sibirskogo otdeleniya AN SSSR, Novosibirsk. (Siberian Platform--Rocks, Igneous)

ZEYTS, F.Yu.; SHARAPOV, V.N.

Genetic relationships between the igneous activity and the complex metal mineralization in the Kondoma region of Gornaya Shoriya. Geol. i geofiz. no.8:113-116 '63. (MIRA 16:10)

 Institut geologii i geofiziki Sibirskogo otdeleniya AN SSSR, Novosibirsk, Rudnik Tashtagol. (Gornaya Shoriya—Orego deposits)

SHARAPCV, V.N.; LAPIN, S.S.

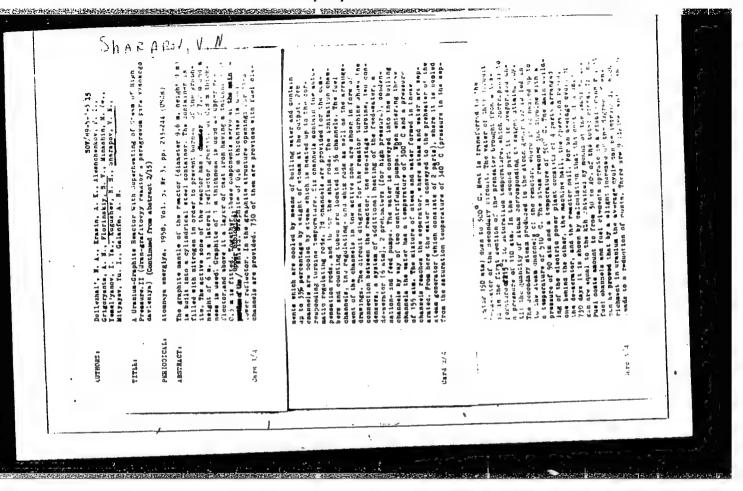
Effect of the composition of displaceable rocks on the distribution of iron in the ore bodies of some metasomatic deposits in the Altai-Sayan. Geol. rud. mestorozh. 7 no.1:23-36 Ja-F 165. (MIRA 18:4)

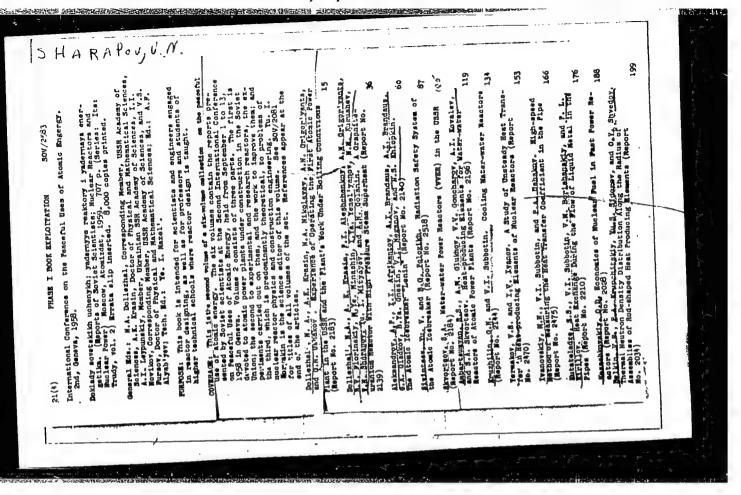
I. Institut gool gir i geofiziki Sibirshogo otdeleniya AN SSSR. Namesibirsk.

BOYARSHINA, A.P.; VASIL'YEVA, A.I.; SHARAPOV, V.N.

Genetic characteristics of the Medvezh'ye deposit in the Kaz group of iron ore deposits. Geol. i geofiz. no.2:149-152 '65. (MIRA 18:9)

l. Institut geologii i geofiziki Sibirskogo otdeleniya AN SSSR, Novosibirsk, i Zapadno-Sibirskoye geologicheskoye upravleniye, Novokuznetsk.





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25555 S/170/61/004/008/005/016 B116/B212

AUTHORS:

Bondarenko, A. V., Voznesenskiy, Yu. A., Minashin, M. Ye.,

Sidorova, I. I., Sharapov, V. N.

TITLE:

Investigation of the automatic control system for the power

level of a power reactor

PERIODICAL:

Inzhenerno-fizicheskiy zhurnal, v. 4, no. 8, 1961, 54-62

TEXT: The present paper deals with the calculation of the control system of a power reactor. A concrete example is given for the investigation of the transient processes for one of the variants of a projected reactor having an automatic power control system. A number of questions are discussed which are connected with the automatic reactor during non-steady operation. The variant mentioned is shown in Fig. 1. The control object is built similarly to that of the first atomic power plant in the USSR, namely, a heterogeneous uranium-graphite boiling reactor. This reactor has an effective neutron life of $1 = 4 \cdot 10^{-4}$ sec and a negative temperature effect. Fig. 2 shows the cross section of a fuel element in the graphite

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Investigation of the automatic ...

block of the core. Three groups of equations are set up: For the change of neutron density in the reactor in time:

$$\frac{dn}{d\tau} = \frac{1}{l} \frac{h_{sopp}(1-\beta)-1}{l} n + \sum_{i=1}^{6} \lambda_{i} c_{i}, \qquad (1)$$

$$\frac{dc_l}{dz} = -\lambda_l c_l + \frac{k_{s \phi \phi} \beta_l}{l} n,$$

$$\beta = \sum_{i=1}^{6} \beta_i, \ i = 1, 2, \dots, 6, \tag{2-7}$$

where τ denotes the time, n the neutron density, $k_{\text{b} + \tau} = k_{\text{eff}}$, λ_i the decay constant of the fragments of the i-th group of delayed neutrons, l the effective relative yield of delayed neutrons of the i-th group (taking into account the production energy), c_i the effective life of neutrons in the

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Investigation of the automatic ...

reactor. The deviation $\Delta k = k_{eff} - 1$ is caused by an external perturbation $(\Delta k_{perturbation})$ and by a change in reactivity 1) due to the motion of the control rods (automatic controller): Δk_{AR} , 2) due to the insertion of emergency protection rods into the core: Δk_{ep} ; and 3) due to the deviation of the uranium, moderator and coolant temperatures: Δk_{t} ; Δk combines additively all of these. The second group of equations expresses the change in time of the determining parameters of the automatic control

system. They read: $\frac{d_{c,\phi_{1}}}{d\tau} = k_{1} \left[n(\tau) - 1 \right]$ (8)

 $\frac{T_{uv}}{d\tau} \frac{d\Delta u}{d\tau} + \Delta u = k_2 (\Delta \varphi_1 - k_3 \Delta \varphi_2) \qquad (9) \qquad \frac{d\Delta \varphi_2}{d\tau} = x \qquad (10)$

 $T_{S_{ii}} \frac{dx}{dt} + x = k_4 \Delta u \qquad (11), \qquad \Delta k_{AR} = -k_5 \Delta q_2 \qquad (12)$

where $n(\tau)$ denotes the relative neutron density; ϕ_1 the angle of rotation

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Investigation of the automatic ...

of the drive (of the intermediate switch mechanism); φ_2 the angle of robation of the switch mechanism drive; u the potential at the output of the magnetic amplifier; T_{MV} the time constant of this amplifier; T_{SW} the time constant of the switch mechanism; k_1 , k_2 , k_3 , k_4 , k_5 denote the transmission coefficients of the control elements. The third group of equations sion coefficients of the control elements. The third group of equations makes it possible to determine the mean change of the uranium temperature $(\overline{\Delta t_u})$ in the reactor and also the change of k_{eff} when the uranium temperature changes by 1°C and by Δk_t , if the temperature coefficient of reactivity ture changes by 1°C and by Δk_t , if the temperature coefficient of reactivity (ϱ_{temp}) is known. These equations read as follows:

$$\frac{d\Delta t_{u}^{l}}{dz} = -0.650 \Delta t_{u}^{l} + 0.596 \Delta t_{l}^{l} + 8.63 [n(z) - t]; \tag{13}$$

$$\frac{d\Delta t_{u}^{II}}{dz} = -0.654 \Delta t_{u}^{II} + 0.600 \Delta t_{I}^{II} + 16.2 [n(z) - 1]; \qquad (14)$$

$$\frac{d\Delta t_{u}^{\text{III}}}{dz} = -0.661 \Delta t_{u}^{\text{III}} + 0.607 \Delta t_{I}^{\text{III}} + 20.4 [n(z) - 1]; \tag{15}$$

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Investigation of the automatic ...

$$\frac{d\Delta t_{u}^{IV}}{d\tau} = -1,52 \Delta t_{u}^{IV} + 20,4 [n(\tau) - 1]; \tag{16}$$

$$\frac{d\Delta t_{f}^{1}}{dz} = 1,77 \Delta t_{u}^{1} - 7,64 \Delta t_{f}^{1}; \qquad (17)$$

$$\frac{d\Delta t_{I}^{I}}{dz} = 1,69 \Delta t_{u}^{II} - 4,99 \Delta t_{f}^{II} + 3,04 \Delta t_{f}^{I}; \qquad (18)$$

$$\frac{d\Delta t_{f}^{II}}{d\tau} = 1,77 \Delta t_{u}^{I} - 7,64 \Delta t_{f}^{I};$$

$$\frac{d\Delta t_{f}^{II}}{d\tau} = 1,69 \Delta t_{u}^{II} - 4,99 \Delta t_{f}^{II} + 3,04 \Delta t_{f}^{I};$$

$$\frac{d\Delta t_{f}^{III}}{d\tau} = 1,48 \Delta t_{u}^{III} - 5,67 \Delta t_{f}^{III} + 3,33 \Delta t_{f}^{II} - 0,015 \Delta t_{f}^{III} \Delta t_{u}^{III}.$$
(18)

where Δt_{ij} denotes the deviation of the mean uranium temperature in the cross section of the core in question from a nominal value; At, the deviation of the mean coolant temperature in a certain section (the active zone is divided into several sections with respect to height: I, II, III, IV). It is assumed that the heat removal is concentrated in the layer having radius r3, and that the fuel mass will produce an additional thermal re-Eqs. (1) - (19) have been investigated with the help of a resistance. Card 5/11

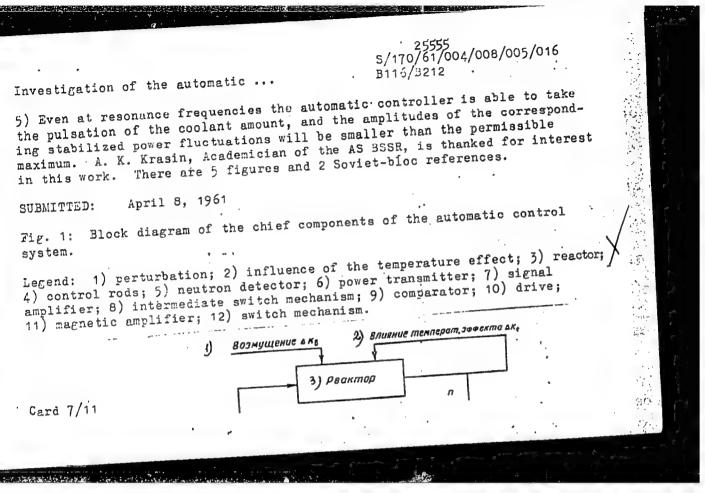
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Investigation of the automatic ...

actor simulator considering 6 groups of delayed neutrons and with three simulating devices of type MH-7 (MN-7) for work control of reactors. The set of equations is schematically shown in Fig. 3. The following results have been obtained by a study of the automatic controller and reactor for non-steady operation: 1) Representation in one-group approximation results in an excessively high maximum reactivity jump permissible; therefore, 6 groups have been taken. 2) For a discontinuously changing reactivity, the increase of the amplification factor of the automatic controller will first decrease the power excess but will also increase the control time. Increasing the amplification factor by a factor of three will keep the system stable. 3) When the temperature effect $(Q_t = 0)$ was not taken into = 0.000472 and a linear dependence of the account, one obtains Ak perm permissible reactivity jump of Q_{temp} : $\delta \Delta k_{perm}/\delta Q_{temp} = 1.45$. 4) The muximum permissible amplitudes of reactivity pulsation in the range of 0.05 - 0.3 cps, which can be applied to the automatic controller, are Eiven as: $\Delta k = 0.0002$ at $Q_t = 0$ and $\Delta k = 0.000325$ at $Q_t = -0.67 \cdot 10^{-4}$. Therefore, the temperature effect has to be determined accurately. Card 6/11



23736 S/089/61/010/006/001/011 B102/B212

21.1330 AUTHORS:

Grishanin, Ye. I., Ivanov, B. G., Sharapov, V. N.

TITLE:

A method of partial fuel reloading in nuclear reactors

PERIODICAL:

Atomnaya energiya, v. 10, no. 6, 1961, 565 - 571

TEXT: The present paper deals with a theoretical investigation of the partial fuel reloading on the burn up depth of uranium in the fuel channel of a reactor. In this fuel reloading method the fuel is gradually reloaded according to the burn up in order to keep the reactivity excess to a minimum. The highest burn up depth in the fuel channel is obtained with a continuous fuel reloading, this casewas already discussed by B. L. Ioffe and L. B. Ckun' ("Atomnaya energiya", no. 4, 80 (1956)). In general a fuel reloading will require the shut down of the whole reactor (with the exception of the Calder-Hall reactors). The method of the partial periodic fuel reloading has been tested for the first time (1956) with the reactor of the first nuclear power station in the USSR (Atomnaya energiya" II, no. 2, 109, (1957)). The Russian S. M. Feynberg talked about the theory of this method at the 2nd Geneva Atomic Conference,

K.

Card 1/4

A method of partial fuel reloading ...

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25736

S/089/61/010/006/001/011 B102/B212

1958; (number of the lecture not given). At first the theory itself is outlined. Later on, it is investigated what part of the fuel has to be reloaded periodically (optimum amount of fuel to be exchanged) in order to keep the costs P of the electric energy to a minimum. From the condition that P shall be a minimum, the optimum amount is calculated with

the help of formula (15): $P = \frac{1}{E} \left[(c_1 + c_2 t_0) N + c_2 t_1 (\frac{1}{7} - q) + c_2 t_2 q + \frac{c_2 T_k}{b} \right]$, where c_1 denotes the difference in costs between virgin fuel and the fuel V removed from the reactor; c_2 the consumption (per day); T_k the mean length of operation of a fuel channel (in effective days) during which the power station has generated E kwh of electric energy; b the load coefficient of the station; t_0 the time required to reload a fuel channel; t_1 the total time of the shut down and the starting up of the reactor; t_2 the down time of the power station for scheduled preventive maintenance and q the number of such shut downs during a time T_k ; T_k the reloading factor equal m/N (from a total of N fuel channels m will be reloaded). The optimum

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A method of partial fuel reloading ...

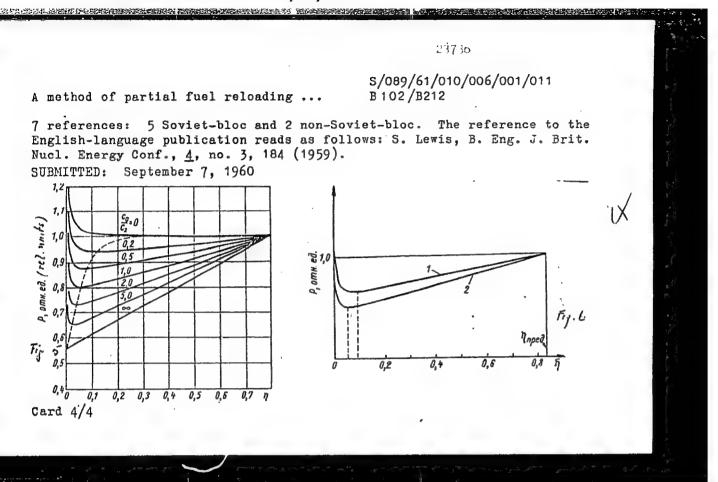
 η value is obtained from the condition: $dP/d\eta = 0$ % opt =

= $t_1/(\frac{0}{c_2} + t_0)$ N $\sim c_2/c_0$, since $t_0 \ll c_0/c_2$. If $c_0 \rightarrow 0$, according to (15) P will be a minimum if $\gamma = 1$. These expressions are valid for an infinite lattice of fuel channels if the regeneration is taken into account. Numerical calculations have been done for the first nuclear power station ($t_0 = 0.077$) and for the Beloyarskaya atomnaya elektrostantsiya im.

I. V. Kurchatova (Beloyarsk nuclear power station imeni I. V. Kurchatov). Fig. 5 shows $P(\gamma)$ for various values of c_0/c_2 (c_0 denotes the price of

new fuel elements) and Fig. 6 shows $P(\gamma)$ with regeneration (curve 1) and without regeneration (curve 2). Concluding it is found that: 1) Partial periodic fuel reloading will increase the burn up depth without increasing the initial reloading; 2) this type of operation requires less shim rods; 3) the uniformity of the energy release will be improved; 4) consideration of the regeneration will shift the optimum γ - value toward higher values. The authors thank A. K. Krasin for interest, O.D. Kazachkovskiy and M. Ye. Minashin for suggestions and advice. There are 6 figures and

Card 3/4



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AUTHORS:

Glazkov, Yu. Yu., Geraseva, L. A., Dubovskiy, B. G.,

Krasin, A. K., Kisil', I. M., Kuznetsov, F. M., Serebrennikov, Yu. E., Shelud'ko, V. P., Sharapov, V. M., Pen Fan

TITLE:

Investigation of the physical characteristics of the lattice of a uranium - graphite reactor by means of a subortical

insert

PERICDICAL:

Atomnaya energiya, v. 11, no. 1, 1961, 5-11

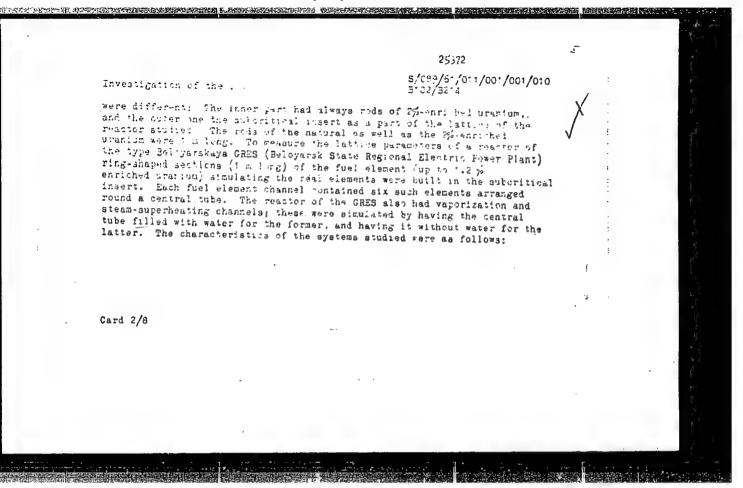
TEXT: This paper gives a description of the experiments carried out since the beginning of 1958 to investigate the physical characteristics of the lattice of a grantum graphite reactor by means of a subcritical insert. A quadratic lattice (period 200 cm) was studied; the graphice block was 2.2m high and had a diameter of 4 m; its holes had diameters of 44 or 75 mm depending on the pressum rods used. Above and below were reflectors, 60 cm thick; the inconstrue of the side-reflector could be varied according to the composition of the core. The inner and the outer parts of the core

Card 1/8

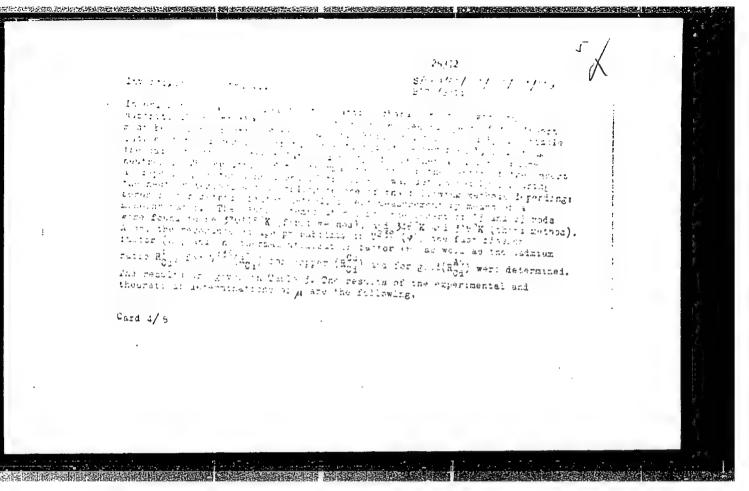
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Investigation of the	3102/3214			
Position of the channel	Value of μ			
	experimental	theoretical 1.033	:	F
Cuntral channel of an insert	1.040±0.006	1.0))	:	1 4
of 21 channels with water One channel with water in the	1.036±0.005	1.030		
center of a thermal graphite			:	· ·
column of 70 cm diameter	1.042±0.006	1.035		
Central channel of an insert of 21 channels without water	1,04220,000		:	
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O for the GRES type reactor was for and 0.65 (without water). It was spectrum in the center of the subcistic of the given uranium - graph the dimensions of the insert so the $\omega_2(\sqrt{\tau_1+L^2})$ cm ($\sqrt{\tau}$ is the slowing dediffusion length). To measure μ it the lattice under study in the center uranium. The authors thank Ye. F.	ritical insert so that ritical insert so that its lattice, it is nec at its equivalent radi wn length in the moder is sufficient to arrater of the reactor with	it is character- essary so to choose us is ator and L the nge one cell of h 2% enriched	n	

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Investigation of the ...

V. N. Fofanov, V. V. Vavilov, V. A. Semenov, A. N. Galanin, M. V. Bakhtina, E. K. Timonina, A. T. Anfilatov, Yu. S. Ziryukin, Yu. I. Starykh and A. P. Dolgolenko for collaboration; and A. V. Kamayev, M. Ye. Minashin, G. Ya. Rumyantsev and I. G. Morozov for their interest and discussions. There are 3 figures, 4 tables, and 12 references: 8 Soviet-bloc and 4 non-Seviet-bloc. The three references to English-language publications read an follows: M. Kuche. Nucl. Sci. Engng. 2, No. 1, 96 (1957); D. Klein et al. Nucl. Sci. Engng. 3, No. 4, 403 (1958); J. Volpe et al. Nucl. Sci. Engng. 5, No. 6, 360 (1959).

SUBMITTED: December 12, 1960

Legond to Table 3: 1) number of the cells in the insert, 2) homogeneous lattice, 3) construction of the elements and enrichment of the uranium, 4) ring-shaped elements with water, 1.2%, 5) idom, 6) the same without water, 7) 35 cm thick rods of natural uranium, 8) 35 mm thick rods of 2% enriched uranium, 9) experimental, 10) calculated, 11) in the fuel element (according to fragment accumulation), 12) in the graphite of the central cell, 13) in the fuel element. "calculated according to V.V. Orlov; ""in agreement with the measurements of M.B. Yegiazarov. Card-6/8-

ACCESSION NR: AP4006629 S/0089/63/015/006/0481/0485

AUTHORS: Glaskov, Yu. Yu.; Dubovskiv, P. G.; Ilyasova, G. A.; Kozlov, V. I.; Smelov, V. V.; Sharapov, V. N.

TITLE: Measuring slow-neutron spectra on a physical stand of the reactor at the Beloyarsk State Regional Power Plant imeni I. V. Kurchstov

SOURCE: Atomnaya energiya, v. 15, no. 0, 1963, 481-485

TOPIC TAGS: slow neutron, slow neutron spectrum, neutron flux distribution, neutron spectrum, neutron flux, energy spectrum, time of flight method

ABSTRACT: The flight time method has been used to measure the energy spectra of slow neutrons on the boundary between cells and on a hot channel surface. The lattice of the subcritical flacility in which the measurements have been made is similar to the reactor lattice of the Beloyarsk atomic power plant. The facility under study, measuring 100 x 100 x 100 cm, was placed in the center of the stand-type uranium graphite reactor core. Channels containing 2%-

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ACCESSION NR: AP4006629

enriched uranium were placed along the core perimeter, and the facility was filled with channels containing 1.2%-enriched uranium. The measurements were made for two different facilities, with and without water, in the central tubes and heat-releasing elements of the hot channels, and the spectra were measured by a mechanical selector. The time separation of the impulses took place in 128-channel analyzer, with each channel measuring 32 microseconds in width. A chamber made of stainless steel IX18H9T and filled with He3 to a pressure of 18 Atms was used as a neutron detector. The energy distribution of the neutron flux found by processing the experimental data are shown in the enclosure, Fig. 3. The experimental spectra were compared with the rated spectra on the outer boundary of the cell and the spectra on the boundary between the graphite and uranium zones. The rated values were "cross linked" with the experimental ones in the moderation region on the boundary between the cells. The comparison thus included both the energy and spatial distribution, and the results appear to agree with the experimental data.

Card 2/5-3

ACCESSION NR: AP4006629

"The authors express their gratitude to L. A. Matalin for the development and construction of the time analyzer, to P. S. Klemashev for designing the mechanical interrupter, and to V. V. Orlov and A. G. Novikov for their useful comments."

Orig. art. has: 3 Figures and 3 Formulas

SUBMITTED: 27Apr63.

DATE ACQ: 07Jan64

ENCL: 02

SUB CODE: NS

NR REF SOV: 005

OTHER: 002

ASSOCIATION: none

Card 3/53

SHARAPOV. V.V., gornyy inzh.

Hydraulic coal mining is one of the most important means of carrying out the tasks set for the coal industry in the current seven-year period. Ugol' 34 mo.3:23-29 Mr '59.

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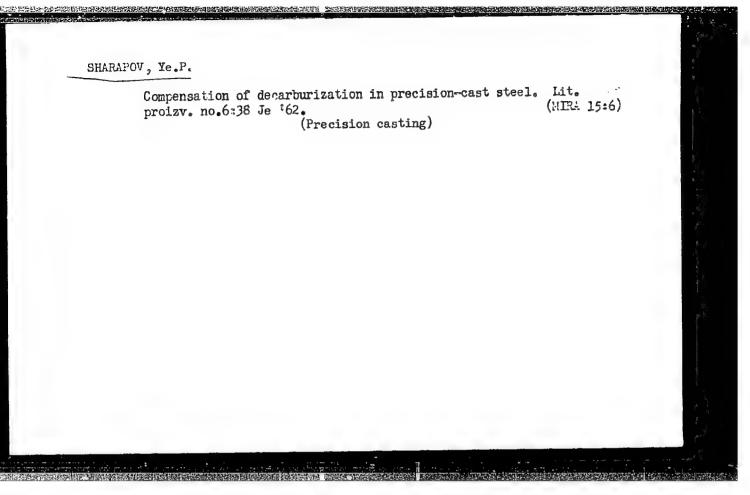
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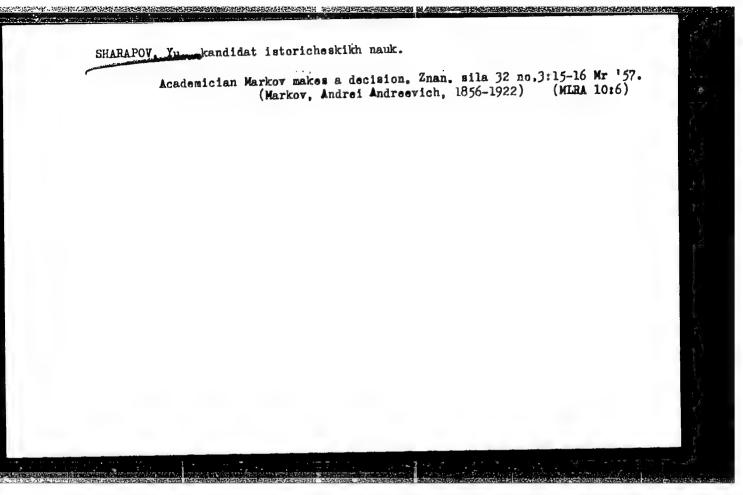
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(Mazut)

SHARLIUV, Ye.G.

First industrial testing of set gill nets made from laysan and anid in the Sea of Jzov. Trudy Azcherniro no.21:15-18
:63. (MIRA 17:8)





The Achievements in the Field of Quick, Reliable, Seconomical and Small Computer Elements."

The Achievements in the Field of Quick, Reliable, Seconomical and Small Computer Elements."

The Achievements in the Field of Quick, Reliable, Seconomical and Small Computer Elements."

The Achievements in the Field of Quick, Reliable, Seconomical and Small Computer Elements."

The Achievements in the Field of Quick, Reliable, Seconomical and Small Computer Elements."

06365 SOV/142-2-4-18/26

9 (2)

Lyubovich, L.A., Kutukov, L.V., Sharapov, Yu.I.

TTTLE:

AUTHORS:

Remarks

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Radiotekhnika,

1959, Vol 2, Nr 4, pp 492-493

The authors express their opinion on the article by T.M. Agakhanyan, B.N. Kononov, I.P. Stepanenko, titled ABSTRACT:

"The Terminology in the Field of Transistor Electronics", published in Izvestiya vysshikh uchebnykh zavedeniy, Radiotekhnika, 1958, Nr 4, Vol 1, p 496. In several cases they do not agree with the suggested list of terms. The designation p-n-p and n-p-n should be used for classifying transistors instead of "dyrochnyye" (hole-type) or "elektronnyye" (electron-type) "tranzistory" (transistors). The latter term should not be used for designation semiconductor diodes. The term "tyanutyy" (drawn) for a crystal is not proper, since a cry-

stal is grown. Concerning diodes, the authors wish that the terms "anod" (anode) and "katod" (cathode) be

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Remarks

used instead of "emitter" (emitter) and "baza" (base), Diodes should not be classified as "vypryamitel'nyy" (rectifier) and "detektornyy" (detector) diodes. The term "ploskostnyy" (junction) in connection with a transistor should not be replaced by different designation (surface bornion). nation (surface barrier, p-n-p, etc), since the number of modifications is increasing annually. Further, the authors recommend some changes in the selection of symbols for designating transistor parameters.

ASSOCIATION: Institut tochnoy mekhaniki i vychislitel'noy tekhniki

AN USSR (Institute of Precision Mechanics and Computer

Engineering of the AS UkrSSR)

SUBMITTED: February 28, 1959

Card 2/2

SHARAFOV, Yu.1.; SADIKOV, L.A., red.

[Elements and networks of electronic digital computers]
Elementy i uzly elektronnykh tsifrovykh vychislitel'nykh
mashin. Moskva, TsNIIPI, 1964. 38 p. (NIRA 18:3)

SHARAPOV, Yu.V.

Fifteenth final session on welding held in Leningrad. Avtom. svar. 17 no.7:93-94 Jl '64. (MIRA 17:8)

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ACCESSION NR: AP5016017

UR/0125/65/000/006/0032/0G374//621.791.756:536.4

AUTHOR: Sharapov,

Sharapov, Yu. V. (Engineer)

TITLE: Temperature fields during electroslag welding of thick-walled structures

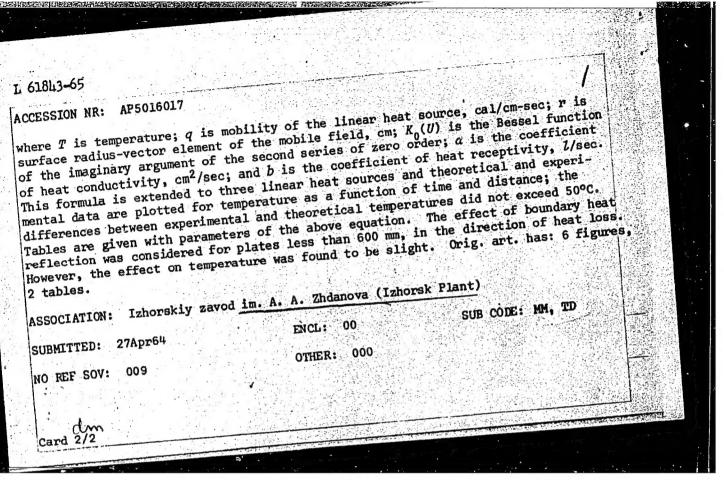
SOURCE: Avtomaticheskaya svarka, no. 6, 1965, 32-37

TOPIC TAGS: heat conductivity, electroslag welding, steel, temperature measurement mathematical method

ABSTRACT: Approximate calculations based on a scheme of three linear sources were made for the thermal cycle of the heat-affected zone in electroslag welding. Experiments were conducted on low-carbon steels with thicknesses ranging from 160 to 650 mm, which were electroslag welded on the automatic A-645 machine. The results and calculations for the thermal cycles are graphically presented. The calculations were based on the formula of N. N. Rykalin for a single heat source

$$T(r,x) = \frac{q_1}{2\pi\lambda} \exp\left(-\frac{Vx}{2a}\right) K_0\left(r \sqrt{\frac{V^2}{4a^2} + \frac{b}{a}}\right)$$

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L 9676-66 EWT (m) /EWA (d) /EWP (v) /T /EWP (t) /EWP (k) /EWP (z) /EWP (b) /EWA (c) JD /HM

ACC NR: AP5027607 SOURCE CODE: UR/0135/65/000/011/0037/0037

AUTHOR: Sharapov, Yu. V. (Engineer)

ORG: Izhorsk Plant (Izhorskiy zavod im. A. A. Zhdanova)

TITLE: Electroslag welding of connecting pipe to thick-walled shells of 15Kh2MF pearlitic steel

SOURCE: Svarochnoye proizvodstvo, no. 11, 1965, 37

TOPIC TAGS: shell structure, electroslag welding, welding equipment component, electric transformer, pipe

ABSTRACT: The author presents the results of experiments with the mechanized welding electroslag of connecting pipe (outside diameter 650 mm) to thick-walled 2,000 mm diameter shells of 15Kh2MF pearlitic steel, performed with the aid of special electrode-feed mechanisms, on using a TShS-3500-3 three-phase transformer as the power source. Two variants of welding were tested: with flat projection on the shell and flat butt end of the connecting pipe (Fig. 1, b) and with cylindrical surfaces of shell projection and pipe butt end (Fig. 1, c). The second variant turned out to be preferable, since it allows some reduction in the shell's forging tolerances and volume of cold working. The assembly is heated during its welding, since this helps to prevent cold cracking, and, after welding, subjected to high-temperature tempering

Card 1/3

UDC: 621.791.793:669.15-194

